Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	If A = {2m/m^3= 8 , m€ Z} then A = ☐	A. {1,8,27} B. {4} C. (2,4,6) D. {2,16,54}
2	sin(3π/2 -θ)=_____;	A. sinθ B. cosθ C. -sinθ D. -cosθ
3	Question Image	
4	Question Image	A. -a -b -c B. 1 C. 0 D. -1
5	Three integers are chosen at random from the first 20 integers. Then probability that their product is even, is	A. 2 / 19 B. 3 / 29 C. 17 / 19 D. 4 / 19
6	Question Image	
7	The corner point of the boundary lines, x-2y 2x + y = 2 is:	A. (2,6) B. (6,2) C. (-2,2) D. (2,-2)
8	i^9 =	A. i² B. -1 C. 1 D. i
9	If f(x) = ax^2, and a>0, then the lowest point on the parabola is called.	A. Vertex of parabola B. Co-ordinates of parabola C. Roots of the equation D. Coefficient of the equation
10	A farmer possesses 100 hectometers of land and wants to grow corn and wheat. Cultivations of corn requires 3 hours per hectometer while cultivation of wheat requires 2 hours per hectometer. Working hours cannot exceed 240. If he gets a profit of Rs. 20 per hectometer for corn and Rs. 15 per hectometer for wheat. The profit function for the farmer is	A. P(x, y) = 20x + 15y B. P(x, y) = 2x + 3y C. P(x, y) = x + y D. P(x, y) = 3x + 2y
11	The value of sin 28°cos 17°+cos 28°sin 17°is	
12	Question Image	A. 8 B. 1/56 C. 56 D. None of these
13	If there are m rows and n columns in a matrix then its order is	A. m x n B. m x m C. n x n D. n x m
14	The set of first elements of the ordered pairs in a relation is called its	A. domain B. range C. relation D. function
15	The length of the tangent from (2, 1) to the circle x^2+ y^2+ 4y + 3 = 0 is	
16	Question Image	A. z is purely imaginary B. a is any complex number C. z is real D. None of these
17	In (x +iy) y is called as	A. Imaginary part B. Complex number C. Real part D. None of above
		A. Addition B. Multiplication

18	The set {Z\ {0} } is group w.r.t	B. Multiplication C. Division D. Subtraction
19	The equation of the plane which bisects the line joining (2, 3, 4) and (6, 7, 8) is	A. x + y + z - 15 = 0 B. x - y + z - 15 = 0 C. x - y - z - 15 = 0 D. x + y + z + 15 = 0
20	Question Image	A. 0 B. $-1-w^2$